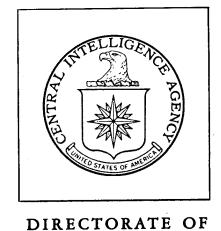
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INTELLIGENCE

Industrial Facilities (Non-Military)

Basic Imagery Interpretation Report

Shih-chia-chuang Nitrogen Fertilizer Plant Shih-chia-chuang, China

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	INTRODUCTION	
TI 01.11		
	Nitrogen Fertilizer Plant is 5 nautical miles (nm) north-	
iia-chuang. The plant i	s situated in an industrial a	area which includes
nmunition plant, and thr	e cotton mill, a coke plant, ee railroad yards.	iwo iron piants, an
A canal located to	the immediate north, supplies	c water to the fart:
<u>zer</u> plant. The Shih-ch	ia-chuang Heat and Thermal Po	ower Plant
1 1 = = = 4 = 4 = 4 = 4 = 4 = 4 = 4 = 4	tely 0.5 nm south-southwest,	f

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plant area. The plant is served by both rail and road.

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BASIC DESCRIPTION

Physical Features

The plant is basically rectangular in shape, measures approximately 2,655 by 1,865 feet, and occupies approximately 115 acres. It is secured by a wall. The plant layout is very similar to that observed at the Kaiyuan Chemical Plant. Both are more compact in design than some of the earlier fertilizer plants in China, such as Tai-yuan and Lan-chou, which were built with Soviet assistance.

Operational Functions

The primary products of the Shih-chia-chuang Nitrogen Fertilizer Plant are ammonium nitrate and probably urea. No production facilities for secondary products could be positively identified.

Coal gasification and air separation produce the necessary gases for ammonia synthesis. Nitric acid, produced by oxidizing ammonia, is then reacted with ammonia to yield ammonium nitrate. Ammonia and carbon dioxide are mixed in an autoclave to make urea.

The major production facilities for nitrogenous fertilizer have been identified and annotated on Figure 3. There are three large processing buildings which could not be identified; however, their location and access to ammonia would indicate that their function is the production of ammonia-based compounds. These buildings are very similar in appearance and relative location to unidentified buildings seen at several other nitrogenous fertilizer plants in China.

Construction Chronology

The ammonium nitrate facilities appeared to be near completion by March 1963. Construction of the urea prilling tower and its associated equipment and building did not begin until August 1965, and was completed by June 1966. There were no significant additions to the fertilizer plant after 1966.

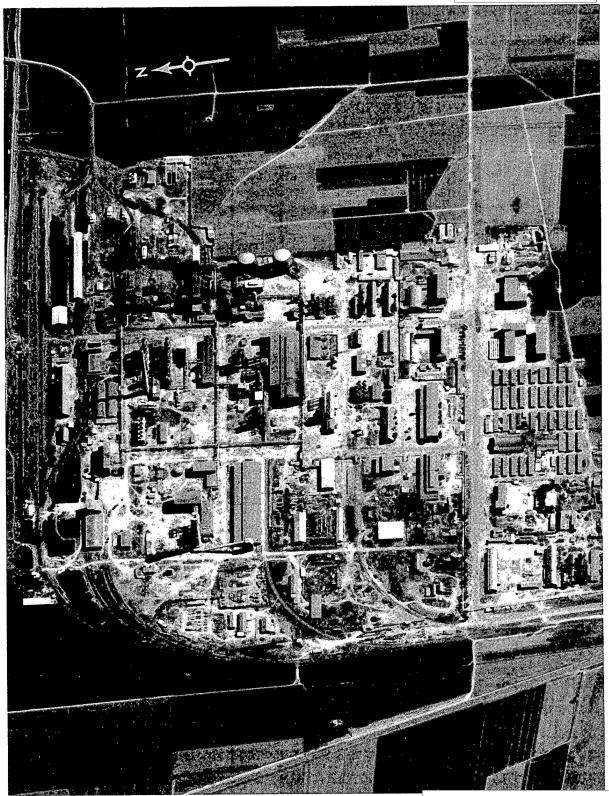
Production Activity

Coal was first observed in the receiving yard in March 1965. The plant was first seen complete in June 1966. Other indicators of production activity were the appearance of vapors from some of the processing units in September 1968, fluctuations in the amount of rail traffic at the plant, and the apparent changing amounts of gas stored in the gasholders.

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FIGURÉ 2. NITROGEN FERTILIZER PLANT, SHIH-CHIA-CHUANG, CHINA,

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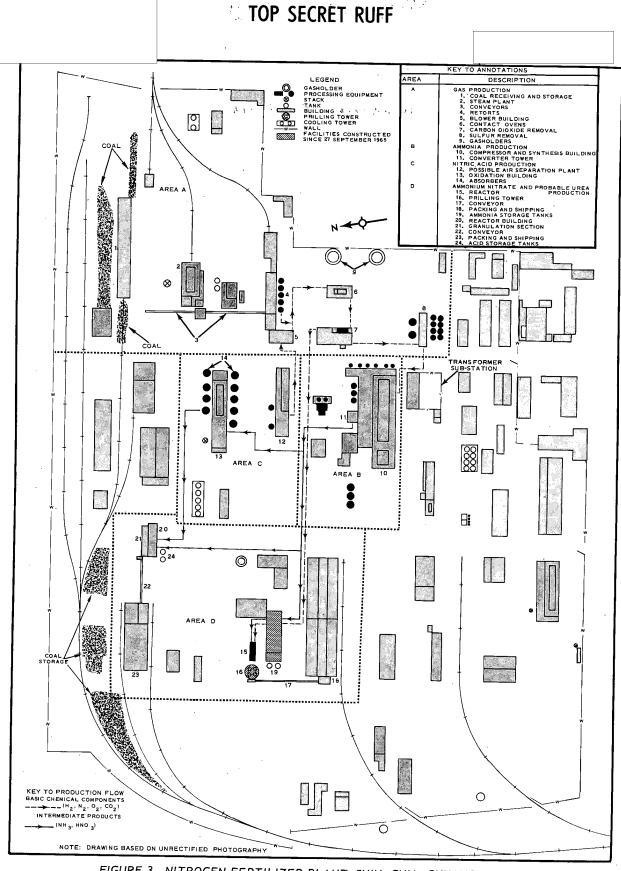
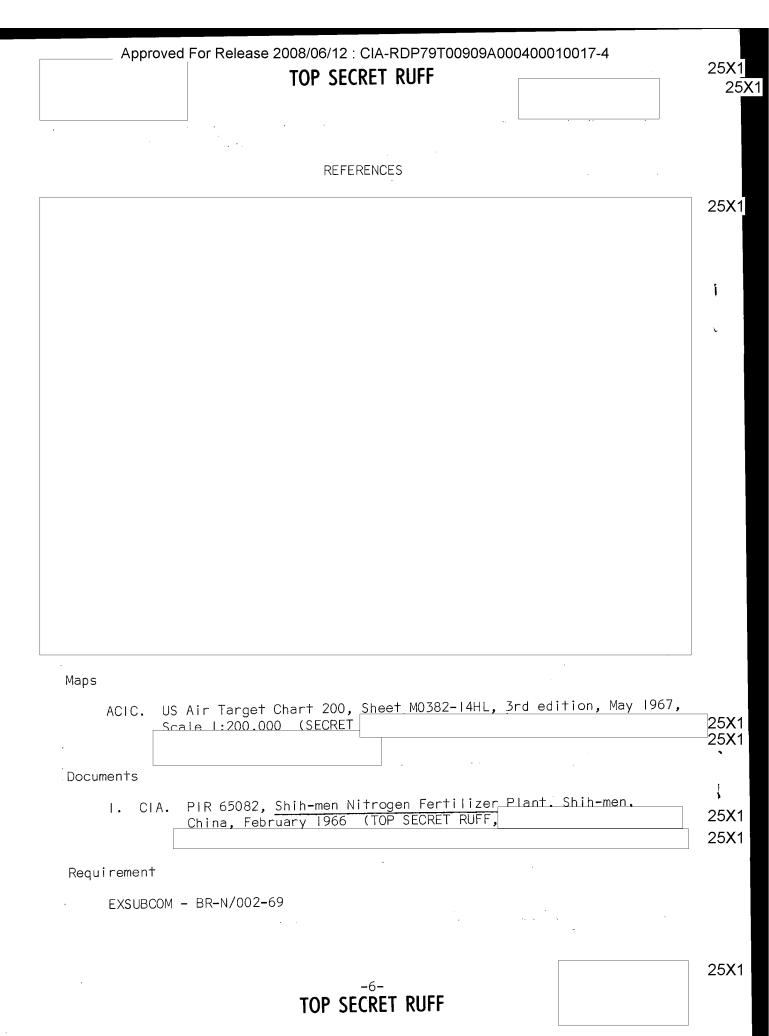


FIGURE 3. NITROGEN FERTILIZER PLANT, SHIH-CHIA-CHUANG, CHINA







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